

Personal Information

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Homepage <https://ohosseini.github.io>

Education

- 2015–Present **Ph.D. candidate**, *Heidelberg University*, Heidelberg, Germany.
Scene Understanding
- 2011–2014 **Master of Science**, *RWTH-Aachen University*, Aachen, Germany.
Media Informatics
Thesis Title – “Improving depth based people detection for mobile robotics”
- 2005–2009 **Bachelor of Science** *Azad University - South Tehran Branch*, Tehran, Iran.
Software Engineering
Thesis Title – “Face recognition using appearance based methods”

Research Interests

Computer Vision, Machine Learning, Deep Learning, 2D/3D Scene Understanding, Domain Adaptation

Publications (top ones are marked by →)

- CVPR 2019 **Localizing Common Objects Using Common Component Activation Map**
Weihao Li, [Omid Hosseini Jafari](#), Carsten Rother
Computer Vision and Pattern Recognition (CVPR) Explainable AI Workshop, Jun. 2019
- ACCV 2018 **Deep Object Co-Segmentation**
[Omid Hosseini Jafari](#)*, Weihao Li*, Carsten Rother
(* equal contribution)
Asian Conference on Computer Vision (ACCV), Dec. 2018
- ACCV 2018 **iPose: Instance-Aware 6D Pose Estimation of Partly Occluded Objects**
[Omid Hosseini Jafari](#)*, S.K. Mustikovela*, K. Pertsch, E. Brachmann, C. Rother
(* equal contribution)
Asian Conference on Computer Vision (ACCV), Dec. 2018
- ICCV 2017 **Bounding Boxes, Segmentations and Object Coordinates: How Important is Recognition for 3D Scene Flow Estimation in Autonomous Driving Scenarios?**
[Omid Hosseini Jafari](#)*, A. Behl*, S. K. Mustikovela*, H. Abu Alhaija, C. Rother, A. Geiger
(* equal contribution)
International Conference on Computer Vision (ICCV), Oct. 2017
- VMV 2017 **Semantic-Aware Image Smoothing**
Weihao Li, [Omid Hosseini Jafari](#), Carsten Rother
International Symposium on Vision, Modeling and Visualization (VMV), Sep. 2017

- ICRA 2017 **Analyzing Modular CNN Architectures for Joint Depth Prediction and Semantic Segmentation**
Omid Hosseini Jafari, Oliver Groth, Alexander Kirillov, Michael Y. Yang, Carsten Rother
 IEEE International Conference on Robotics and Automation (ICRA), June 2017
- ICRA 2016 **Real-Time RGB-D based Template Matching Pedestrian Detection**
Omid Hosseini Jafari, Michael Y. Yang
 IEEE International Conference on Robotics and Automation (ICRA), June 2016
- ICRA 2014 **Real-Time RGB-D based People Detection and Tracking for Mobile Robots and Head-Worn Cameras**
Omid Hosseini Jafari, Dennis Mitzel, Bastian Laibe
 IEEE International Conference on Robotics and Automation (ICRA), June 2014

Skills

Programming Languages	C/C++, Python, C#, Basic(Commodore64, GWBasic, QBasic, Visual Basic), Pascal, Java
Tools	Pytorch, Tensorflow, CAFFE, MATALB, CodeVision, AVR, PSpice
Operating Systems	Linux/Unix, Windows, MS-DOS
Graphics Design	3D Studio, 3DS max, blender, ZBrush, Maya

Research Experiences

- 2016 - 2019 **Research Supervision and Teaching Assistant**, TU Dresden and Heidelberg University
 Master thesis supervision
 Computer Vision Lecture
- July 2016 **International Computer Vision Summer School (ICVSS) 2016**
- June 2013 **CVPR 2013 Demo**
Mentors: Dr. Dennis Mitzel, Prof. Bastian Leibe
 Online People Detector and Tracker
- Apr. 2013 - Aug. 2013 **Lab Project**, Fraunhofer IAIS, Bonn, Germany
Mentor: Dr. Rolf Bardeli
 Video processing and augmented reality.
- Oct. 2012 - Apr. 2013 **Lab Project**, Human Language Technology and Pattern Recognition Group
Mentor: Prof. Hermann Ney
 Automatic Speech Recognition
- Mar. 2012 - Oct. 2014 **Student Research ASsistant**, Computer Vision Lab at RWTH Aachen University, Germany
Advisor: Prof. Bastian Leibe
 Multiple pedestrian detection and tracking.
- 2006 - 2009 **ACM ICPC**
 as Participant and Mentor
- 2006 - 2009 **Teaching Assistant**, Azad University, Tehran, Iran
 Fundamentals of Programming (C++), Data Structure, introduction to algorithms, Logical Circuits

References

- Ph.D. Advisor Dr. Prof. **Carsten Rother**, *Visual Learning Lab*, Heidelberg University, Germany.
 ✉ carsten.rother@iwr.uni-heidelberg.de
- Research Mentor Prof. Dr. **Andreas Geiger**, Max Plunk Institute and University of Tübingen, Germany.
 ✉ andreas.geiger@tue.mpg.de
- Research Mentor Dr. **Michael Ying Yang**, University of Twente, Netherlands.
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- M.Sc. Advisor Prof. Dr. **Bastian Leibe**, *Visual Computing Institute*, RWTH Aachen University, Germany.
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